

ABSTRACT

There can be obtained a magnetic thin film for high frequency 1 which has both a high permeability and a high saturation magnetization by combining a T-L composition layer 5 comprising a T-L composition, wherein T is Fe or FeCo, and L is at least one element selected from the group consisting of C, B and N, with a Co based amorphous alloy layer 3 disposed on either of the surfaces of the T-L composition layer 5. Further, there can be obtained a magnetic thin film for high frequency 1 which has both a high permeability and a high saturation magnetization, and at the same time has a high resistivity by further providing the magnetic thin film with, in addition to the T-L composition layer 5 and the Co based amorphous alloy layer 3, a high resistance layer 7 having an electric resistance higher than the T-L composition layer 5 and the Co based amorphous alloy layer 3.